FACING CHALLENGES AS YOUNG ENGINEERS

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www.imeche.org
SHOW OF HANDS!

How many of you are...

• aware of Continuous Professional Development?

• using a Personal Development Plan?

• a member or an affiliate of a PEI?
AGENDA

10+ Year Engineering Career

Facing Challenges as Young Engineers

IMechE & Young Member Panels
WHY ENGINEERING?

Engineering is;

• Fun
• Challenging
• Stable Career
• Versatile

WHY IMECE?

IMEchE is;

• Worldwide
• Prestigious
• Experienced
• Volunteering
10+ YEAR ENGINEERING CAREER

08
• BEng Mechanical Engineering at Karadeniz Technical U.
• Contract: AutoCAD Mechanical Engineer in Turkey

09
• Moved to the UK with Turkish Government Scholarship
• Zero-hour: Hospitality Jobs (ManC, ManU, Aintree, etc.)

10
• MSc Mechanical Engineering Design, UoM
• Temporary: SolidWorks Draughtsman, Chemquip Ltd

11
• 1-year of Research in Mechanical Engineering, UoM
• Contract: Manufacturing Engineer Support at Airbus

12
• Permanent: Design Engineer - Subsea Cable Protection
  Trelleborg Offshore UK Ltd & later BMP Europe Ltd

15
• PgCert Project Management (ODL), RGU
• Chartered Engineer & IMechE Lancashire

16
• Patent of “Ducting” for Subsea Cables

17
• Permanent: Design Engineer, John Crane UK Ltd
• Volunteering: Vice Chair at the IMechE Lancashire Area

18
• Volunteering: STEM Ambassador
• Volunteering: Honorary Chair at the IMechE Lancashire
DESIGN ENGINEER IN COUPLINGS R&D

Design and develop power transmission couplings

Predict performance characteristics

Hands on testing and product validation

Ensure compliance with standards

Provide technical support

Produce failure analysis reports

Identify and exploit existing and new technologies

Deliver product technical training

Meet customers to review design requirements
5-KEY CHALLENGES FACING YOUNG ENGINEERS
CAN I FIND A SCHOLARSHIP?

- Apprentice and EngTech awards
- Conference and training awards
- Industry and special interest group awards
- Prestige awards
- Undergraduate and postgraduate awards
- Vision awards
- Volunteering, group and project awards
- Young member awards

Contact our Prizes and Awards Team
awards@imeche.org
+44 (0) 128 471 7887
If you work, you make money and experience.

If you study Masters, you have to pay student loans, but your employability and earning potential rises significantly.

If you study PhD, you will become highly specialised and reduce the choice of jobs available to you at the start of your career.
CHALLENGE: 03

HOW DO I GET RELEVANT EXPERIENCE?

Work experience (shadowing)
Internships (fixed-term and unpaid or paid)
Voluntary work (no contract, unpaid)
Temporary work (anytime)
Contract work (fixed-term or zero-hour)
Permanent employment (full benefits)

AIM IS TO GET GOOD REFERENCES!
Dear Murat,

Thank you for all your help in translating for myself and all the other Directors at our recent luncheon with the Directors of Bursaspor.

Your assistance is very much appreciated and I believe you helped again with the Visiting Directors dinner prior to the game.

Should we have a visiting party over from Turkey again, I hope you won't mind us calling on your skills once more. As a gesture of our appreciation I have enclosed a small gift.

Kind regards,

Yours sincerely,

David A Gill
Chief Executive
CHALLENGE: 04

HOW DO I DEVELOP MY CAREER?

Personal SWOT analysis

Setting Development Goals

<table>
<thead>
<tr>
<th>What do I want to learn/gain?</th>
<th>What do I have to do?</th>
<th>What support and resources will I need?</th>
<th>How will I measure success?</th>
<th>Target date for review?</th>
</tr>
</thead>
</table>

Setting Objectives

*Short/Medium/Long Term*
CHALLENGE: 04

HOW DO I DEVELOP MY CAREER?

Networking
Classroom or Online Training
Books / Audiobooks
Peer reviews, Mentoring and Coaching
Shadowing experienced people
Lectures, Seminars or Conferences
Learn from great mentors!

“That which does not kill us makes us stronger.” — Nietzsche

“Everything in the universe is within you. Ask all from yourself.” — Rumi

“Luck is what happens when preparation meets opportunity.” — Seneca

“Innovation comes from people who take joy in their work.” — Deming
HOW DO I ESTABLISH MY PERSONAL BRAND?

Skills & Expertise
Affiliations
Publications
Track Record
Presentations
Online Presence
ABOUT IMECHE

Represents and promotes the interests of engineering and engineers globally

The fastest growing engineering institution in the UK

Licensed by Engineering Council to award EngTech, IEng and CEng registration

Supports all disciplines of the mechanical engineering community

Provides learning and development support at every stage of your career

SIGN UP AT IMECE.ORG/UNI
STUDENT COMPETITIONS

Getting involved at your university:

- Formula Student
- Railway Challenge
- Design Challenge
- Aerospace Challenge
- Unmanned Aircraft Challenge
- Speak Out For Engineering
- Global Engineering Debate
- Scholarships and Awards

SIGN UP ATIMECHE.ORG/UNI
CAREERS ADVICE AND SUPPORT

Industry information

Careers advice

Engineers’ video profiles

Job search advice

Job application and process guidance

SIGN UP AT IMECHE.ORG/UNI
LITERATURE REVIEW & LIST OF REFERENCES
https://www.imeche.org/membership-registration
JOIN YOUR PROFESSIONAL INSTITUTION
THE FIRST STEPS TO PROFESSIONAL REGISTRATION.

International recognition of your competence
Career enhancement, creating opportunities
Increased earning potential
Ongoing development
Be part of a professional Institution
Gain access to life-long learning from the IMechE
Professional credentials

Ruth Shilston, CEng MIMechE
Chair IMechE Young Members Board 2013
FORMAL MEMBERSHIP & QUALIFICATIONS

MEMBERSHIP

Fellow FIMechE
Member MIMechE
Associate AMIMechE
Affiliate

EXPERIENCE OR QUALIFICATIONS TOWARDS MEMBER COMPETENCY

EngTech
NC/ND (OND)
NVQ3/SVQ3
City and Guilds
B TEC
SCOTVEC
Tech Certificate from Approved Apprentice Programme

IEng
BEng / BSc
HNC/HND
Foundation degree + Further Learning

CEng
MEng
BEng (Hons) + Further Learning
YOUNG MEMBER NETWORKS

Member networks around the world

Institution staff and local volunteers of students and post-graduates working together

Activities across a broad spectrum of industries

Hosting technical and social events, working on engineering initiatives, and raising the profile of engineering

Provide great networking and volunteering opportunities

Young Members’ Board
GET ACTIVE WITH IMECHE

As an Affiliate you can get involved:

Be part of a Professional Network

Join a local Young Member Panel / Student Chapter

Join in events and STEM initiatives

Meet with fellow engineers and future employers

Share experience, help to build your knowledge and support others

Build soft professional skills

SIGN UP AT IMECHE.ORG/UNI
NORTH WEST REGION
YOUNG MEMBER PANELS

https://nearyou.imeche.org/near-you/UK/North-Western

GMYMP /greater-manchester-young-member-panel
NLYMP /north-lancashire-young-member-panel
SLYMP /south-lancashire-young-members-panel
SCYMP /south-cumbria-young-member-panel

West Cumbria Young Members Panel /WCYM

SIGN UP AT IMECHE.ORG/UNI
AFFILIATE MEMBERSHIP
HOW TO APPLY.

MEMBERSHIP & REGISTRATION
JOIN US AND BE PART OF A GLOBAL NETWORK OF OVER 120,000 EXCEPTIONAL ENGINEERS IN 140 COUNTRIES.

Sign up at; www.imeche.org/uni

Complete the application form
Check your inbox
Click on the confirmation link
Look out for the election email
THANK YOU

Murat Islam CEng MIMechE
Chairman, IMechE Lancashire Area

www.linkedin.com/in/muratislam/
www.facebook.com/imechelancashire/
nearyou.imeche.org/near-you/UK/North-Western/Lancashire-Area

For more information on professional registration please contact:
Emma Guy – Business Development Manager, IMechE North West Region
e_guy@imeche.org
www.imeche.org

Improving the world through engineering